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(54)GEAR TRANSMISSION DEVICE FOR AUTOMATIC TRANSMISSION

(57)Abstract:

PROBLEM TO BE SOLVED: To simplify the structure, and to miniaturize the radial dimensions of an automatic transmission by arranging a second clutch and a third one-way clutch outside three sets of single pinion type planetary gears by the ring gear input.

SOLUTION: A transmission is provided with a second clutch C2 and a third one-way clutch F3 continuously to a third clutch C3 to selectively restrict a first carrier PC1 and a sun gear S1. A second one-way clutch F2 is provided continuous to a second brake B2, and the one-way clutches F2, F3 are arranged outside planetary gears G1, G2, G3. Because the transmission mechanism capable of employing the OWC transmission is provided between the second planetary gear G2 and the third planetary gear G3 without interposing any one-way clutch, complicated structure is avoided, and advantages of miniaturization and reduction of the number of tightening elements are achieved when the OWC transmission is employed in 1-2 transmission, 1-2 transmission and 2-3 transmission.

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